

Title (en)
COORDINATE MEASURING SYSTEM

Publication
EP 0334890 A4 19911113 (EN)

Application
EP 88900336 A 19871210

Priority
AU PH944686 A 19861210

Abstract (en)
[origin: WO8804404A1] The coordinate measuring system comprises a device (D) and host computer (19). The device (D) is formed of a base (1) rigidly attached to the article to be measured, an arm (2) rotatable relative to the base (1) only about axis (A), arm (3) rotatable relative to arm (2) only about axis (B), and arm (4) slidable relative to arm (3) along axis (C). The axes (A, B and C) are parallel. At the pivots (5) and (6) and sleeve (7) there are high precision bearings and rotary encoders. The approximate (3D) coordinates corresponding to the position of the measurement probe (10) can be calculated from the encoder derived measurements and are corrected by the computer for inaccuracies due to axes misalignment, flex of components etc. Correction terms are programmed after the assembly of the device (D).

IPC 1-7
G01B 21/04; **G01B 21/24**; **G01B 7/03**; **G01B 7/31**

IPC 8 full level
G01B 21/00 (2006.01); **G01B 5/00** (2006.01); **G01B 5/24** (2006.01); **G01B 7/31** (2006.01); **G01B 21/04** (2006.01); **G01B 21/24** (2006.01)

CPC (source: EP US)
G01B 5/0025 (2013.01 - EP US); **G01B 5/24** (2013.01 - EP US); **G01B 21/04** (2013.01 - EP US)

Citation (search report)
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• [X] JOURNAL OF PHYSICS E. SCIENTIFIC INSTRUMENTS. vol. 19, no. 7, July 1986, ISHING, BRISTOL GB pages 495 - 501; W. LOTZE: 'PRECISION LENGTH MEASUREMENT BY COMPUTER-AIDED COORDINATE MEASUREMENT '
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WO 8804404 A1 19880616; AU 1054688 A 19880630; AU 619171 B2 19920123; CA 1299362 C 19920428; EP 0334890 A1 19891004; EP 0334890 A4 19911113; JP H02501591 A 19900531; US 5148377 A 19920915

DOCDB simple family (application)
AU 8700420 W 19871210; AU 1054688 A 19871210; CA 553911 A 19871209; EP 88900336 A 19871210; JP 50050287 A 19871210; US 37823889 A 19890612